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RELEASE NOTES CHCS-4.61-TOOLS

This release contains updates to existing software resulting from new development and changes to existing software resulting from SIRS.

1. SPECIAL CONCERNS

Site Operations Personnel: Be sure to read the CHCS Installation Guide for any software installation concerns.

2. DIFFERENCES FROM PREVIOUS SOFTWARE VERSION (SIRS)

DEVICE HANDLER

A new feature of CHCS version 4.6 is the Device Handler (DH), which manages communications between the CHCS application software, site users, the system manager and external devices.

CHCS application software can access, set controls on, and specify characteristics of external device types. This is accomplished by passing the appropriate parameters in a call to the DH. The DH performs a lookup on the requested device, sets the specified controls and characteristics and provides the application with a channel to the indicated device. When the application finishes outputting to the device, the application calls DH to close the channel.

The DH prompts users to specify a device if none was specified by the CHCS application. The DH also allows users to modify some characteristics of the specified device.

The DH allows the system administrator to manage device configuration, user settings, disk buffer resource allocation, device security aspects, and user print requests.

The DH supports the following devices: terminals, printers, magtapes, spool documents, Telnet, flat files, indexed files, PostScript, Transmission Control Protocol/Internet Protocol (TCP/IP), MAIL messages, and File Transport Protocol (FTP).

The DH allows print requests to reach printers directly or to be spooled; except for TCP/IP, MAIL messages, and FTP, which must be automatically spooled.

The new DH functionality allows users to:

Query the status and cancel pending print requests using the Query Print Request (QPR) option on the secondary menu.

View and reprint a document using the Reprint Report (RPR) option on the secondary menu.

At a device prompt, enter a backslash (/) to access the Device Setting screen to:

- specify default setting for confirmation messages
- specify that a print request have a confirmation message
- specify that a job be queued

- modify default print format characteristics
- modify print format characteristics for a specific print request
- specify default device
- specify the number of copies to be printed for automatically spooled print requests
- specify multiple devices for output.

The Device Settings screen is a new screen accessed by entering a backslash (/) at the "DEVICE:" prompt. This screen enables the user to specify a device, device type, its location, and modify its attributes. The user can also set the number of copies to be printed, the page length, whether to queue the print request, and if a Confirmation Message is desired upon completion. The values entered through this screen can be set as the user's default settings for the specified device.

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DEVICE: TOOLS/	Default Device:
Confirmation Message: NO	Save As Default: NO
Device Type: P-HPLASER.800R132.DIRECT	Location: Build. D
Number of Copies: 3	Queue: YES
Form Length: 60	Page Length: 66
Last Updated: 12 DEC 1996@1015	Updated By: DOE, JOHN

Device Specific Attributes:

12 PITCH	ON
LOW INTENSITY	ON
UNDERLINE OFF	ON
PROPORTIONAL SPACING	OFF
PORTRAIT	ON

The new DH functionality enables system managers to:

Create, edit and delete devices and their settings using the updated Device Edit (DDD) option on the Device Editor Menu (EVE-> DE-> DDD).

View devices and their settings using the updated Display Device Data (DEDT) option on the Device Editor Menu (EVE-> DE-> DEDT).

Create, edit and delete device types and their settings using the updated Terminal Type Edit (TTED) option on the Device Editor Menu (EVE-> DE-> TTED).

List device types and their settings using the updated List Terminal Type (LTT) option on the Device Editor Menu (EVE-> DE-> LTT).

View, purge and define the users' device settings using the User Device Settings Report (UDSR) option on the User Management Menu (EVE-> UM-> UDSR).

Determine if a device is accessible, and if not why, by selecting the Verify Device Accessibility (VDA) option on the Device Editor Menu (EVE-> DE-> VDA).

View the status print requests by user or by device using the View Print Status by User (VPSU) option on the Device Editor Menu (EVE-> DE-> VPSU).

Reprint a user's print request using the Reprint Reports by User (RRU) option on the Device Editor Menu (EVE-> DE-> RRU).

Cancel or change the priority of a user's pending print request using the Cancel/Modify Print Request (CMPR) option on the Device Editor Menu (EVE-> DE-> CMPR).

Maintain site parameters related to the DH functionality. Listed below are the thirteen new site parameters default settings. The system manager can change these defaults after installing CHCS version 4.6.

Spool Print Requests: Never
Queuing Default: Never
Confirmation Message: No
Spooled File Lifetime: 30
Maximum Copies: 0
Maximum Pages: 0
Maximum Devices: 0
Spool Disk: DISK\$LOG
Severity Level 1: 1%
Severity Level 2: 3%
Severity Level 3: 5%
Severity Level 4: 10%
Severity Level 5: 15%

NOTE: The parameter Spool Print Requests must be changed from "Never" to "Always."
Setting the other parameters is optional.

(SCR 96-3943)

FILE MANAGER

The FileMan software was modified to correct a system error that occurred when a user mistakenly used a dash (-) instead of an underscore (_) inside vertical bars as the computed expression for bold in a word processing field when printed to a system printer. (SIR 23695)

The FileMan software was modified to print search criteria for printed reports even when no match is found. Previously, it was difficult to determine which reports did not print, because the print header and footer did not appear when search criteria returned a "no match." (SIR 23899)

The FileMan software was modified to correct a system error that occurred while entering parasitology results for lab in development environments. (SIR 23988)

The FileMan software was modified to allow the user to scroll down a list in a WindowMan word processing field when the field is set to "display" and the window contains more information than it is able to display on the screen. This was discovered in PACMEDNET software when a patient had more than six prescriptions to display in the Discharge Summary. (SIR 24287) (SCC 960900812)

The FileMan software was modified to correct a system error that occurred when using the FileMan Print File Entries option and entering a numeric designation for a SUB-FIELD. (SIR 24703) (SCC 960400010)

The FileMan software was modified to allow users to inquire to file entries and run ad hoc reports even when the RD ACCESS field appears to be null but actually contains a space. (SIR 25871)

The FileMan software was modified to correct a problem that resulted in blank lines appearing in a picklist of accession areas. When there were two or more screens of entries during specimen log-in there was a possibility that a specimen could be assigned to an accession area other than the one selected. (SIR 25875) (SCC 961100206)

The FileMan software was modified to correct a problem with lookups that involved a partial match to exactly one entry in a file. (SIR 26947) (SCC 970700829)

INTERFACE MANAGEMENT

The Health Level 7 (HL7) Generic TOOLS Development/Enhancement Project for CHCS Version 4.6 enables the bidirectional data interchange between CHCS and connecting external systems. It provides the performance and throughput improvement needed to support the expected increase of data interchange traffic.

The Defense Blood Standard System (DBSS) Data to DEERS project for CHCS Version 4.6 allows users to enter Blood Type into the CHCS database. Users order, result and report an ABO/RH test on CHCS. The data as well as the source of data (CHCS or DBSS) is stored in the CHCS Patient file if no data previously received from the DBSS is on file. A bulletin is sent to designated recipients if there is a discrepancy in Blood Type data from one result entry to another. Additionally, Blood Type data and the source of the data is transmitted to the Defense Enrollment Eligibility Reporting System (DEERS) from the CHCS Patient file.

An acknowledge message normally contains the ID of the original message. However in some situations the message ACKID was missing. This generated a MUMPS error and killed the background process. The Interface software was modified to ensure a message is appropriately transmitted even if the ACKID was missing, and to process the corresponding reject acknowledgement message from COPATH. (SIR 24439) (SCC 960501010)

A system error was generated when a report and a purge of the INTHU global were run at the same time. The Interface software was modified to avoid generating the system error. (SIR 25269)

The Interface software was modified to forward blood bank test results to CliniComp. A new transaction type (HL LAB BB RESULTS - CLIN) was added. The script generator message was updated to include the new transaction type. (SIR 25482) (SCC 960895482)

The Interface software was modified to correct an error that resulted in the error message "Message from receiver <name> does not have the MSH segment in the correct location." The modification ensured that all segments recieved up to a roll-out are saved to global as well as all subsequent segments. (SIR 25754) (SCC 961000873)

The Interface software was modified to correct a problem that could generate a misleading Transaction Report. The report indicated that significant interface data was missing when it actually was not. (SIR 25776)

The Interface software was modified to correct an error that resulted in the following error message during the daily data purge: "DPGM+4%ZTMS:1 NO SUCH COMPILED ROUTINE." (SIR 26226) (SCC 961200257)

The Interface software was modified to correct a problem related to a routine call from XXDMMFTQ. XXDMTQ incorrectly called the INHOQR1 routine. XXDMMTTQ was modified to call the INHUTS routine. (SIR 26358) (SCC 970200796)

LOGON/SECURITY

The new Security Auditing functionality manages the CHCS user security auditing activities. User activities involving menu option, file/record, and device accesses are audited and logged.

Security Auditing receives notification of any user device access failures from the DH. FileMan notifies Security Auditing if a user has attempted any unauthorized accesses to

user menu options, files or records. The Log-On Security software uses the user audit criteria information from Security Auditing to perform the security auditing for a specific user(s). Security Auditing collects and reports on the security audit data provided by Log-On Security.

Security Auditing provides two new options on the Security Officer (SPY) Menu.

MAF Manage Audit Functions
SAR Security Audit Reports.

The Manage Audit Functions (MAF) option supports auditing activities other than generating reports. MAF primarily controls defining users to be audited and managing the Security Audit Log.

Security Audit Reports (SAR) is used to generate standard reports for site management. SAR collects the site administrator specified data from the Security Audit Log file and formats the data into standard reports.

Using these options the system manager can monitor users and generate reports from the collected user audit data. The system manager can also create, modify, and delete audit groups.

Collected audit data is retained for a designated period of time or is kept for the default sixty day time period. Purging audit data is under site administrator control. (SCR 92-1489, SCR 92-1491)

The User Inquiry option on the User Management Menu was modified to provide complete and correct information to the system manager, and to improve the report layout. The In Division and FileMan Access fields were lengthened to display the complete field entry. The following fields were added: Auto Menu, Terminal Type, Multiple Sign-On, Default Device, Initial, and Mail Group. The Type-Ahead field no longer displays a NO entry when null; the field entry is no longer overridden by the Kernel Site file value. A single active division displays separately from the Keys Held information. (SIR 14319)

An interface driver and related terminal type (P-INTERMEC8636) was developed to support the Intermec 8636 Turbo barcodable printers. (SIR 17944) (SCC 931000709)

The Logon/Security software was modified to correct a problem that could generate errors when users select menus. (SIR 25126) (SCC 960600943)

The CHCS Logon/Security software was modified to correct a problem that allowed inappropriate multiple log-ons. (SIR 25194) (SCC 960400901)

The Logon/Security software was modified so users without the correct security key for their default menu and read the resulting error message before it scrolls off the screen. The message "You may not have a primary menu assigned, or hold the key to that menu, no access allowed for the user." displays. This message will not scroll off the screen until the user responds to the prompt "Press <RETURN> to continue." (SIR 25684) (SCC 960700440)

MAILMAN

The MailMan software was modified to make Message Action Help context sensitive. (SIR 22229) (SCC 950692229)

The MailMan software was modified to allow receipt of an incoming message with a subject in excess of 512 bytes, and to allow transmission of a network message with no text. (SIR 25569) (SCC 960800982)

The MailMan software was modified to allow users to delete mail baskets even though they may contain new messages. Any "new" messages that were in the deleted basket are moved to the IN basket. (SIR 25669) (SCC 960700798)

The MailMan software was modified to correct a null subscript error in the Simple Mail Transfer Protocol (SMTP) routine. (SIR 26277) (SCC 970100623)

The MailMan software was modified to accommodate e-mail addresses of up to 500 characters. (SIR 26913) (SCC 970700506)

Online Users Manual (OLUM)

There are twelve new options on the OLUM Table of Contents and Index Menus.

OLUM Table of Contents

WAM	Workload Assignment Module
TOP	Topics
DAA	Data Administration
DE	Device Editor
FMG	FileMan Ad Hoc User Guide
FMR	FileMan Reference
ME	Menu Management
MMM	Manage MailMan
SM	Site Manager
SQL	M/SQL Management
TM	TaskMan
UM	User Management

The Workload Assignment Module (WAM) option includes information on editing/reporting workload, displaying exceptions reports, and managing workload templates. This information formerly was found under the Medical Services Accounting (MSA) option.

The Topics (TOP) option includes a system overview and information on security, monitoring, peripherals, and Virtual Address Extended (VAX), Virtual Memory System (VMS), and Disgital Standard MUMPS (DSM) environments.

The Data Administration (DAA) option includes information on maintaining common files and tables, and initiating provider merge and unmerge.

The Device Editor (DE) option includes information on managing CHCS system device and terminal files, and terminal, display, and banner maintenance.

The FileMan Ad Hoc User Guide (FMG) option includes information on ad hoc guidelines; searching, inquiring, and printing file entries; specifying file, sort, and print criteria; using list file attributes; specifying sort, search, and print templates.

The FileMan Reference (FMR) option includes information on creating a FileMan database, entering/editing data, modifying database structure, and generating reports and database statistics.

The Menu Management (ME) option includes information on maintaining CHCS menus, options, and security keys; and allocating security keys.

The Manage MailMan (MM) option includes information on managing the CHCS MailMan bulletin and waste basket maintenance, and group membership maintenance.

The Site Manager (SM) option includes information on CHCS Tools site parameters,

maintaining and controlling the log-on process, and interface management.

There are two new options on the OLUM Release Notes Menu.

TOL Tools

WAM Workload Assignment Module

The OLUM Menu options can no longer be accessed by entering the unique letter associated with the option. You can use the up- and down-arrows, and Page Up/Page Down keys to move from one option to another.

UTILITIES

When a user accesses the TaskMan Control Menu at extremely busy sites a warning message may display. TaskMan has been changed to make this message consistent with the TaskMan Verify option message: "Taskman

exists and has not been active in the last nn minutes." (SIR 18586) (SCC 940100656)

The Utilities software was modified to correct an error related to printing a telephone consult. (SIR 22352) (SCC 950400883)

The Add Edit Device option was modified to add a Suppress Trailing Form Feed field. This parameter controls the trailing form feed on printers such as the HP Laserjet series. (SIR 24050) (SCC 960400505)

The Utilities software was modified to correct a problem that generated a system error when the C-VT100 terminal type was selected. (SIR 25155)

The CHCS Utilities software was modified to accept a "SPOOL;nn" entry to produce a spool file of width nn characters. (SIR 25859) (SCC 961001171)

The Utilities software was modified so that the P-PHLASER terminal types perform the correct initialization and resetting at the end of a print job. (SIR 25956)

The Utilities software was modified to correct a problem that resulted in a system error when a user attempted to print to a slave device. (SIR 26087) (SCC 961200732)

The Utilities software was modified to correct a problem that resulted in TaskMan not closing a (printer) device properly. Previously some printers would not generate form feeds needed to separate worksheets or reports. (SIR 26566) (SCC 970300234)

The Utilities software was modified to correct a problem with the way that TaskMan server processes were created that could generate system errors under certain conditions (e.g., %DSM-E-LCKERR, Cluster wide lock error, - SYSTEM-F-EXE-NQL M, exceeded enqueue quota). TaskMan server processes are now created using the /AUTHORIZE parameter. The /AUTHORIZE parameter directs the operating system to use the SYSAUF lock table and quota settings appropriate for the site's hardware configuration. (SIR 26567)

The Utilities software was modified to correct a startup problem with BGSTART.COM. The CHCS B node can now connect to transmit data to CEIS. (SIR 26732) (SCC 970100887)

The Utilities software was modified to correct a problem related to FTP/Open ZTFS2. (SIR 26952) (SCC 960500790)

3. SUBSYSTEMS AFFECTED BY THIS RELEASE

The following release notes are begin distributed for this software release:

CLN, DBA, DTS, FQA, LAB, MCP, MSA/TPC, PAD (INCLUDING MASCAL), PAS, PHR, RAD, R/IT, TOL AND WAM.

